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FIG. 19 is an exploded perspective view of a rotary compressor including a modified valve assembly according to a second embodiment of the present invention;

FIG. 20 is a plan view illustrating the valve assembly of FIG. 6;

5 FIGS. 21A and 21B are sectional views illustrating operation of discharge valves of a rotary compressor according to a second embodiment of the present invention;

10 FIGS. 22A and 22B are sectional views illustrating operation of a valve assembly of a rotary compressor according to a second embodiment of the present invention;

FIGS. 23A to 23C are cross-sectional views sequentially illustrating insides of the cylinder when the roller revolves in the counterclockwise direction in the rotary compressors according to a second embodiment of the present invention;

15 FIGS. 24A to 24C are cross-sectional views sequentially illustrating insides of the cylinder when the roller revolves in the clockwise direction in the rotary compressors according to a second embodiment of the present invention;

FIG. 25 is a partial longitudinal sectional view illustrating a rotary compressor according to a third embodiment of the present invention;

20 FIG. 26 is an exploded perspective view illustrating the compression unit of the rotary compressor according to a third embodiment of the present invention;

FIG. 27 is a sectional view illustrating the compressing unit according to a third embodiment of the present invention;

25 FIG. 28 is a cross-sectional view illustrating the inside of the cylinder according to a third embodiment of the present invention;

FIG. 29 is a plan view illustrating a lower bearing of the rotary compressor according to a third embodiment of the present invention;

30 FIGS. 30A and 30B are sectional views illustrating operation of discharge valves of a rotary compressor according to a third embodiment of the present invention;

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FIGs. 31A and 32B are sectional views illustrating operation of suction valves of a rotary compressor according to a third embodiment of the present invention;

FIGs. 32A to 32D are cross-sectional views sequentially illustrating insides 5 of the cylinder when the roller revolves in the counterclockwise direction in the rotary compressors according to a third embodiment of the present invention;

FIGs. 33A to 33D are cross-sectional views sequentially illustrating insides of the cylinder when the roller revolves in the clockwise direction in the rotary compressors according to a third embodiment of the present invention;

10 FIG. 34 is a partial longitudinal sectional view illustrating a rotary compressor according to a fourth embodiment of the present invention;

FIG. 35 is an exploded perspective view illustrating the compression unit of the rotary compressor according to a fourth embodiment of the present invention;

15 FIG. 36 is a sectional view illustrating the compressing unit according to a fourth embodiment of the present invention;

FIG. 37 is a cross-sectional view illustrating the inside of the cylinder according to a fourth embodiment of the present invention;

20 FIG. 38 is a plan view illustrating clearances between the roller and the cylinder in a rotary compressor according to a fourth embodiment of the present invention;

FIGs. 39A to 39C are cross-sectional views sequentially illustrating insides of the cylinder when the roller revolves in the counterclockwise direction in the rotary compressors according to a fourth embodiment of the present invention;

25 and

FIGs. 40A to 40C are cross-sectional views sequentially illustrating insides of the cylinder when the roller revolves in the clockwise direction in the rotary compressors according to a fourth embodiment of the present invention.

30 Best Mode For Carrying Out The Invention